

In the Specification

Please replace paragraph [0013] with the originally filed paragraph

[0013] Preferably, the liquid vortex comprises:

- (i) an outer shell having a top plate, a central opening in fluid communication with the central combustion chamber;
- (ii) a conical-shaped baffle within the outer shell having an inner surface and a central opening which is generally aligned with the interior surface of the gas stream flow chamber, the conical-shaped baffle generally concentrically aligned with the inner surface of the outer shell to form a concentric chamber; and
- (iii) a liquid inlet arranged to tangentially introduce liquid into the concentric chamber, thereby filling the concentric chamber with liquid to create a swirling motion, causing the liquid to rise and overflow the conical-shaped baffle into the gas stream flow chamber to form a laminar sheet of fluid on the inner surface of the conical-shaped baffle that flows downwardly onto the interior surface of the gas stream flow chamber.

Please replace paragraph [0026] with the following replacement paragraph:

[0026] With reference to Figure 1, there is shown a two-stage ~~reactive~~ reactor 10 representative of the system described herein. There is shown an upper reaction chamber 12 and a lower reaction chamber 14. The upper reaction chamber includes at least one waste gas inlet 15 for introducing

ATMI-660

the gaseous waste stream. In this embodiment, there are additional independent gas inlets 16 and 17 for the introduction of additional flammable gases or oxidants to provide a fuel rich gas mixture and thereby increasing the combustion temperature within the system for destruction of resistant contaminates.